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Sent: Friday, February 22, 2019 4:35 PM
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Subject: PE Monthly 22 FEB 2019
Attachments: PEAT Monthly Feb_2019.pptx
Signed By: (b) (6)

CNO, Admirals,

PEAT monthly update follows, no assistance required.

Key Highlights:

- The PEAT executed a roadshow to 3rd MAW/MAG-11 at MCAS Miramar. Roadshows continue to be our most effective means of communicating with aviators and maintainers.
- The PEAT visited the NASA Engineering and Safety Center to receive a brief on preliminary flight test data pertaining to the MBU-23 mask in-flight performance. The FA-18 RCCA will be examining mask performance in the coming months.
- Hornet Health and Readiness Tool (HhART) pilot program kicked off last week with VFA-213 in Oceana (taking data analytics to the Fleet). This is our most promising path for improving ECS system stability in the short term.
- The DIU Physiological Monitor Acquisition effort is going well and the proposals show great promise.

Hornet/Growler:

- Root Cause Corrective Action (RCCA): 200 of 602 of branches closed (Note: previously the denominator had been 427 branches. The increase to 602 is due to re-alignment which allows greater granularity).
- VFA-213 data analysis underway with HhART program.
- Garmin smart watches have been supplied to the Type Wings to equip all F/A-18 aircrew for the next two years.
- Cockpit Pressurization Oxygen Measuring System (CPOMS) fielding plan is in revision with TYCOM: Will be the largest TMS mod in NAVAIR history, affecting 1072 aircraft.
- Salty Dog 415 (F/A-18C with fully instrumented ECS) anticipated first flight next week.

T-45:

- Root Cause Corrective Action (RCCA): 289 of 349 branches closed, up from 266 last month.
- Automatic Backup Oxygen System (ABOS): CDR started 29JAN, Validation/Verification scheduled to award March 2019.

T-6:

- New OBOGS concentrators (42 total) scheduled to be delivered and fielded by March 2019 (18 have already been delivered to Pensacola, the location of our older T-6As).

BUMED:

- Medical leadership from BUMED and CNAL briefed Physiological Event overview to US Department of Veteran Affairs - Polytrauma System of Care. The Veterans Health Administration operates five Polytrauma Rehabilitation Centers across the US that provide comprehensive interdisciplinary patient evaluation for chronic functional deficits. BUMED will look to leverage the expertise at the Polytrauma Rehabilitation Centers for evaluating aviators that have chronic symptoms following a PE.
- Final Draft of SECNAVINST 6410.1 (Flight Surgeon Utilization Instruction) has been signed by BUMED and is in final routing stages for signature.
- BUMED-sponsored project being conducted at Navy Medical Research Unit, Dayton (NAMRU-D) to develop a blood oxygen sensor moving forward. On 20 February, in-person software update, device training, and test matrix confirmation meeting was held at NAMRU-D. Next step, scheduled for April 2019, is validating the sensor with arterial blood sampling which will be done in collaboration with researchers at the University of California, San Francisco.

9 PEs since last report:

- 29JAN: F/A-18E, VFA-25. Aircrew diverted to NAS Oceana enroute to carrier for AV AIR HOT. Pilot reported nausea and dizziness that was found to be related to human factors (dehydration, fatigue).
- 29JAN: F/A-18E, VFA-115. Minor cabin pressure fluctuations during throttle transients. The next day aircrew noted tingling in left fingers and soreness in the left arm which resulted in hyperbaric treatment.
- 30JAN: EA-18G, VAQ-129. ECS DEGD with 8A4 MSP led to tingling in neck in the pilot. Symptoms subsided on emergency O2.
- 01FEB: F/A-18F, VX-31. Cabin pressure fluctuations led to symptoms in the pilot. Symptoms subsided on emergency O2.
- 05FEB: F/A-18F, VFA-211. OBOGS DEGD led to slight tingling in the pilot and WSO which subsided on emergency O2.
- 07FEB: F/A-18F, VFA-106. AV AIR HOT caution cleared and then reappeared in working area. Procedures resulted in a slow increase in pressure and temperature. RAC experienced tunnel vision on RTB which subsided on emergency O2.
- 13FEB: T-45C, VT-21. OBOGS Light during flight with emergency procedures executed. Aircrew experienced no symptoms airborne but felt symptomatic post-flight.
- 19FEB: F/A-18E, VFA-97. OBOGS DEGD returning to carrier stayed on for roughly 8 minutes. Experienced feeling off with minor lightheadedness which resolved on O2.
- 20FEB: F/A-18E, VFA-115. GEN TIE Caution caused the cabin pressurization to cease and gradually raise the cabin altitude. After the GEN TIE Logic reset the cabin rapidly re-pressurized. The following morning aircrew had left side tingling and a residual headache which led to hyperbaric treatment.

Engagements:

- 4-6FEB: MCAS Miramar PE Roadshow (MAG, Tenant Squadrons, Medical)
- 14FEB: HASC TALF PSM brief (RDML Luchtman, BGEN Vaughan)
- 19FEB: NASA Visit (NESC personnel)

Upcoming:

- 25-27FEB: US Navy Aeromedical Conference (USNAC) keynote, Pensacola
- 26-28FEB: F/A-18 Super Hornet Systems Safety Working Group (SSWG), Key West
- 04-08MAR: Aviation Life Support Systems (ALSS) Maintainer Working Group, Miramar
- 11MAR: CNAF ENARG, North Island
- 12-14MAR: Aircrew Systems SSWG, In-service Management Panel (IMP), Miramar
- 21-25APR: CAG-5/MAG-12 Visit, MCAS Iwakuni, JP

Very respectfully,

Lucky

RDML F.R. Luchtman, USN

Physiological Episodes Action Team

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